

AUG 16 2006

Application No: 10/523,386
Attorney's Docket No: NL 020727**CLAIM AMENDMENTS**

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) Optical disk system comprising at least one photo detector for detecting at least a part of said optical disk and in response generating detection signals and comprising at least one variable gain amplifier for amplifying detection signals and comprising at least one slicer for slicing amplified detection signals, characterized in that
_____ said optical disk system comprises at least one generator in a feedback path between said slicer and said variable gain amplifier for controlling said variable gain amplifier non-linearly, and
_____ said generator comprises a converter for converting voltages into currents, a further converter for converting voltages into currents, and at least one capacitor located between both converters.
2. (Cancelled).
3. (Cancelled).
4. (Currently Amended) Optical disk system according to ~~claim 3~~ claim 1, characterized in that said photo detector comprises at least four subdetectors, with said optical disk system comprising per subdetector a variable gain amplifier, a slicer and two converters with a capacitor.

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5. (Currently Amended) Circuit for amplifying and slicing detection signals originating from at least one photo detector in an optical disk system and comprising at least one variable gain amplifier for amplifying detection signals and comprising at least one slicer for slicing amplified detection signals, characterized in that

_____ said circuit comprises at least one generator in a feedback path between said slicer and said variable gain amplifier for controlling said variable gain amplifier non-linearly, and

_____ said generator comprises a converter for converting voltages into currents, a further converter for converting voltages into currents, and at least one capacitor located between both converters.

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) Method for use in an optical disk system and comprising the steps of detecting at least a part of said optical disk via at least one photo detector and in response generating detection signals and amplifying detection signals via at least one variable gain amplifier and slicing amplified detection signals via at least one slicer, characterized in that

_____ said method comprises the step of controlling said amplifying non-linearly via at least one generator located in a feedback path between said slicer and said variable gain amplifier.

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said method comprises the step of converting voltages into currents via said generator comprising a converter, and

said method comprises the step of further converting voltages into currents via said generator comprising a further converter, with at least one capacitor being located between both converters.

9. (Cancelled).

10. (Cancelled).